

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) A method of managing faults in a storage system having a job management function for identifying a job in a computer system having a computing device for executing jobs, a storage device including a plurality of physical disk units, and a computer for managing faults, the job is affected by a fault at a location existing on a data mapping path, said data mapping path comprising a particular table on a database accessed by a particular job, a file for storing said table, a logical volume for storing said file, and said physical disk units for distributively storing data on said volume, based on data mapping information related to said data mapping path, said data mapping information including an identifier of an interface situated on said data mapping path for interfacing one device to another, said method comprising the steps of:

collecting part of said data mapping information from each of a plurality of devices including said computing device and said storage device which hold corresponding information on said data mapping path from said job to said physical disk units through said table, said file, and said volume;

integrating said data mapping information on each job of said jobs, separately, a job-by-job basis for storage in a management table; and

identifying a job affected by a fault with reference to said management table for displaying the affected job upon receipt of a fault report about any of said physical disk units from said storage device.

2. (Currently Amended) A method of managing fault in a storage system according to claim 1, wherein:

said data mapping information has a hierarchical structure comprised of a real volume for storing said file, one or more virtual volumes for storing said real volume, logical disk units for distributively storing data on said virtual volume, and said physical disk units for distributively storing data on said logical disk units; and

said computer system further comprises a virtualization switch virtualizer interposed between said computing device and said storage device for converting an identifier of said virtual volume included in an input/output request received from a higher rank device to an identifier of said logical disk unit.

3. (Original) A method of managing fault in a storage system according to claim 2, wherein said data mapping information includes information on a correspondence relationship between said file and said real volume, information on a correspondence relationship between said real volume and said virtual volume, information on a correspondence relationship between said virtual volume and said logical disk units, and information on a correspondence relationship between said logical disk units and said physical disk units.

4. (Currently Amended) A computer system for identifying a job which is affected by a fault at a location existing on a data mapping path, said data mapping path comprising a particular table on a database accessed by a particular job, a file for storing said table, a logical volume for storing said file, and physical disk units for distributively storing data on said volume, based on data mapping information related to said data mapping path, said data mapping information including an identifier of an

interface situated on said data mapping path for interfacing one device to another, said computer system comprising:

a computing device for executing a job;

a storage device including a plurality of said physical disk units; and

a server computer for managing faults, said server computer including:

means for collecting part of said data mapping information from each of

a plurality of devices including said computing device and said storage device which hold corresponding information on said data mapping path from said job to said physical disk units through said table, said file, and said volume;

means for integrating said data mapping information on each job of said jobs, separately, a job-by-job basis for storage in a management table; and

means for identifying a job affected by a fault with reference to said management table for displaying the affected job upon receipt of a fault report about any of said physical disk units from said storage device.

5. (Currently Amended) A computer system according to claim 4, wherein:

said data mapping information has a hierarchical structure comprised of a real volume for storing said file, one or more virtual volumes for storing said real volume, logical disk units for distributively storing data on said virtual volume, and said physical disk units for distributively storing data on said logical disk units; and

said computer system further comprises a virtualization switch~~virtualizer~~ interposed between said computing device and said storage device for converting an identifier of said virtual volume included in an input/output request received from a higher rank device to an identifier of said logical disk unit.

6. (Original) A computer system according to claim 5, wherein said data mapping information includes information on a correspondence relationship between said file and said real volume, information on a correspondence relationship between said real volume and said virtual volume, information on a correspondence relationship between said virtual volume and said logical disk units, and information on a correspondence relationship between said logical disk units and said physical disk units.

7-20. (Canceled)